

DOCUMENT-IDENTIFIER: US 5626230 A
TITLE: Sharps kit for percutaneous catheterization

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TTL:
Sharps kit for percutaneous catheterization

ABPL:
A sharps kit for percutaneous catheterization is formed as a flat housing with openings. The interior space is filled moisture adsorbing material such as sponge and silica gel. Hypodermic needles are inserted in openings of the housing and extending into the interior space. At least some of the needles can be flushed directly into the housing and they are wiped as they are inserted. The needles are provided with a luer lock with which they can be lockingly attached to a syringe. The housing has two protective conical shields pointed towards the openings.

BSPR:
Most cardiac catheterization is through the femoral artery with the Seldinger technique. Usually, a left side catheterization is followed by a

right side
catheterization. The flushing and temporary of the sharps between
the two
procedures is time consuming, complicated, and space and labor
intensive.
Also, the disposal of the plurality of sharps is cumbersome (No
simple
procedure kit has been previously proposed in the art).

BSPR:

It is accordingly an object of the invention to provide a sharps kit
for
percutaneous catheterization, which overcomes the
hereinafore-mentioned
disadvantages of the heretofore-known devices of this general type
and which
provides an integral kit specifically for a multi-sharps procedure
with
anti-stick protection and flushing capability. The main object is to
provide
an anti-stick assembly is specifically directed at the protection of
medical
personnel against punctures from a hypodermic needle associated
with a
conventional hypodermic syringe and ready accessibility of all
sharps used in a
certain technique.

BSPR:

With the foregoing and other objects in view there is provided, in
accordance
with the invention, a sharps kit for percutaneous catheterization,

comprising:

BSPR:

In accordance with another feature of the invention, the plurality of hypodermic needles includes a two-part needle with a stylet and a cannula, and a plurality of anaesthetic needles of various lengths, typically used in the Seldinger technique. Additionally, the kit may be provided with a scalpel.

BSPR:

Although the invention is illustrated and described herein as embodied in a sharps kit for percutaneous catheterization, it is nevertheless not intended to be limited to the details shown, since various modifications and structural changes may be made therein without departing from the spirit of the invention and within the scope and range of equivalents of the claims.

DRPR:

FIG. 1 is a perspective view of a kit according to the invention;

DRPR:

FIG. 2 is a cross-sectional view through the kit taken along a vertical plane in FIG. 1; and

DEPR:

Referring now to the figures of the drawing in detail and first,

particularly,
to FIG. 1 thereof, there is seen a sharps kit according to the invention. The kit comprises a basic body 1 and two conical shields 2 and 3. The basic body 1 and the shields 2 and 3 are preferably formed as a single shell from a plastic of medium hardness. The form may be extruded, injection molded or manufactured by any similar process. Typical dimensions of the housing with the shields are 6 1/2 by 3 1/2 by 1 1/2 inches.

DEPR:

A first needle 4 (18 gauge, 1 1/2" needle) is used for drawing Lidocaine or the like from a vial. A second needle 5 (25 gauge, 1" needle) is used to localize superficial areas of the designated surgical site. A third needle 6 (21 gauge, 1 1/2" needle) is used to localize deeper for the completion of the local anaesthesia. Each of the needles 4, 5 and 6 is disposed in its sheath and provided with a standard LUER lock for threaded connection with a syringe. The sheaths of the needles 4, 5 and 6 may be fully integrated in the housing or, alternatively, standard sheaths may be wedged into appropriate openings in the housing.

DEPR:

With the kit according to the invention, all of the sharps necessary for catheterization can be safely handled and temporarily stored in easy reach of the surgical procedure. At the same time, it is not necessary to remove any of the sharps for wiping and flushing. Finally, the kit can be disposed of as a whole into the sharps container for proper disposal.

CLPR:

1. A sharps kit for percutaneous catheterization, comprising:

CLPR:

2. The sharps kit according to claim 1, wherein said moisture adsorbing material is a sponge.

CLPR:

3. The sharps kit according to claim 1, wherein said moisture adsorbing material is silica gel.

CLPR:

4. The sharps kit according to claim 1, which further comprises a scalpel disposed in one of said openings.

CLPR:

5. The sharps kit according to claim 1, which further comprises a conical

shield integrally formed on said housing for facilitating an insertion of said needles into said openings, said conical shield having a conicity towards said openings.